

FIG. 1

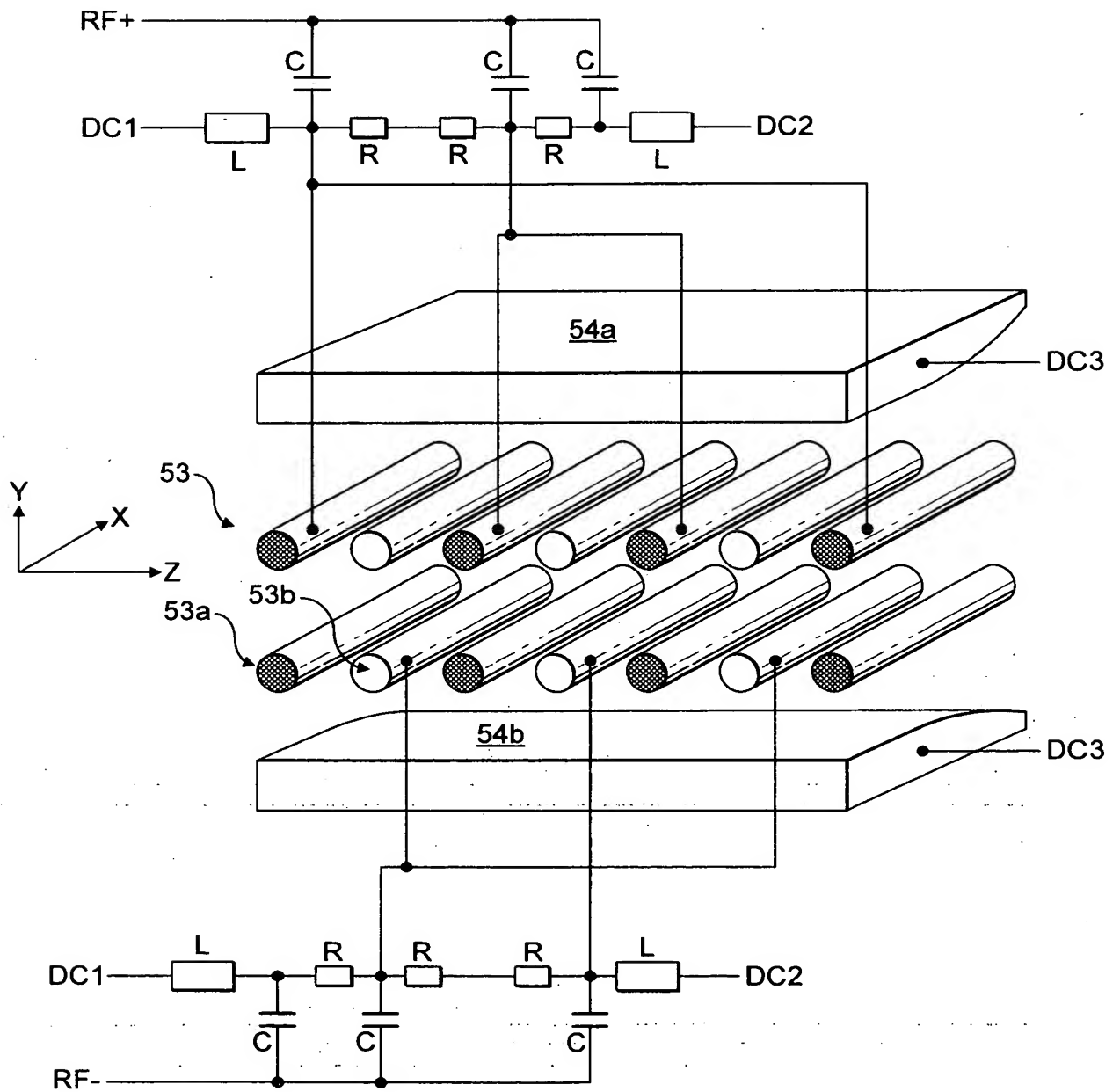


FIG. 2

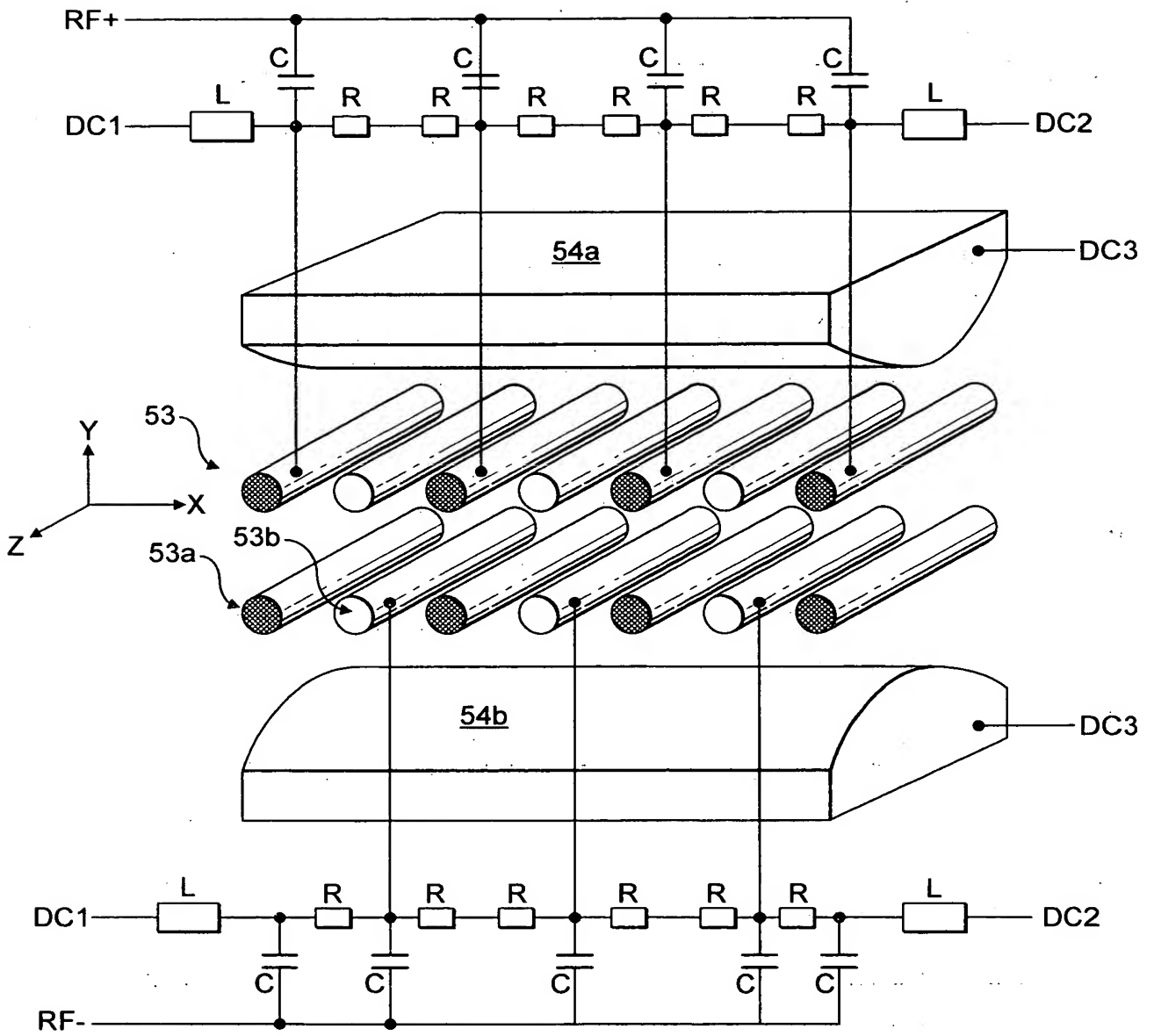


FIG. 3

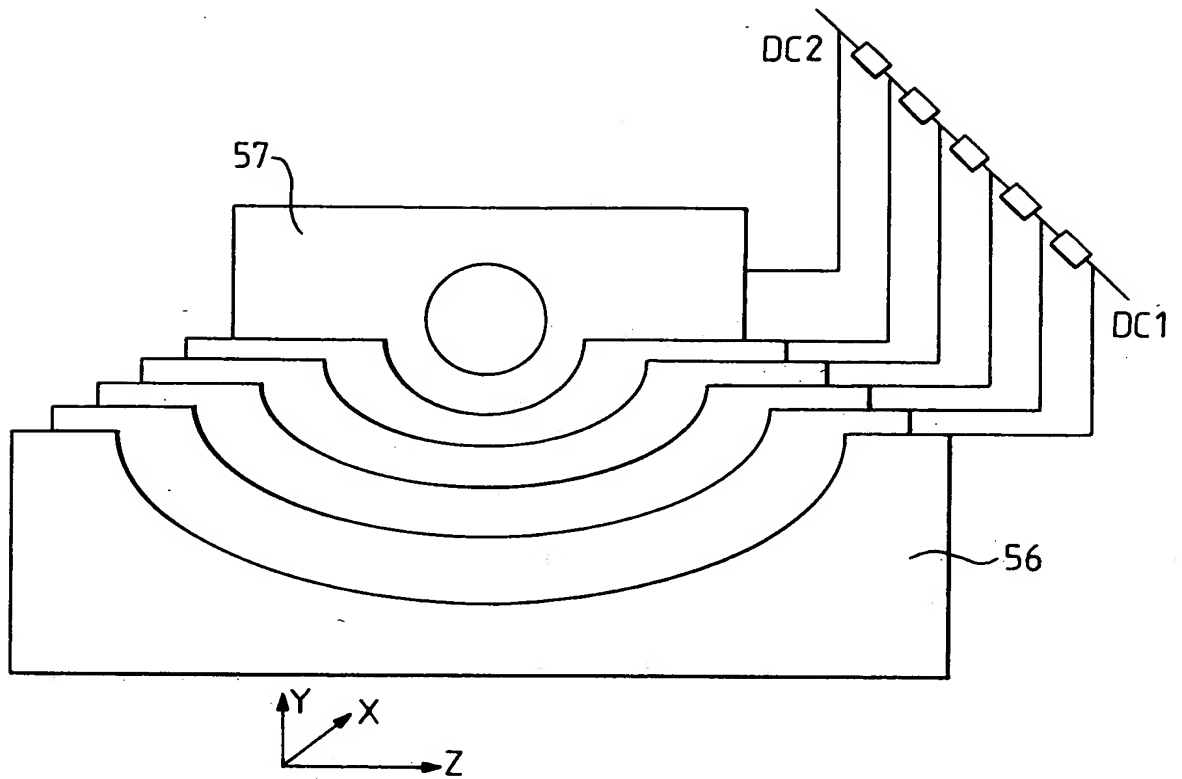


FIG. 4a

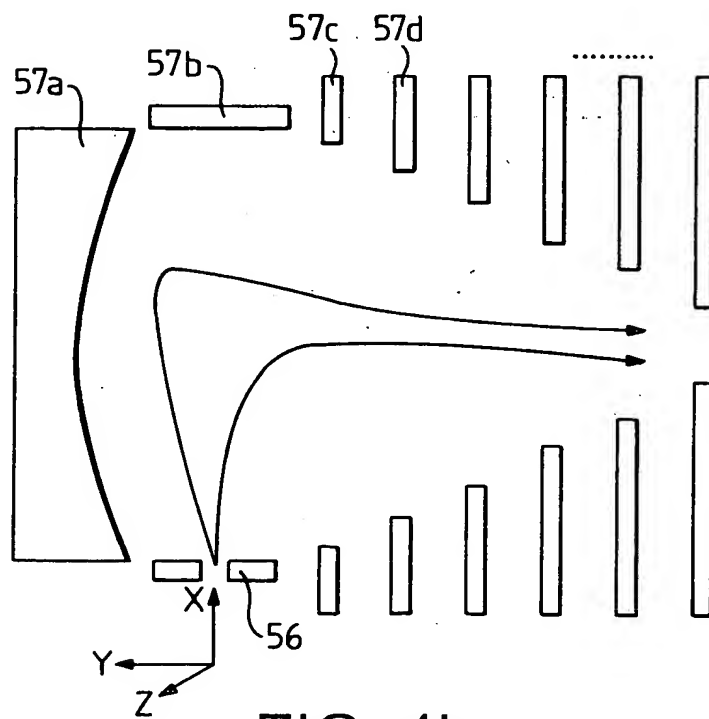


FIG. 4b

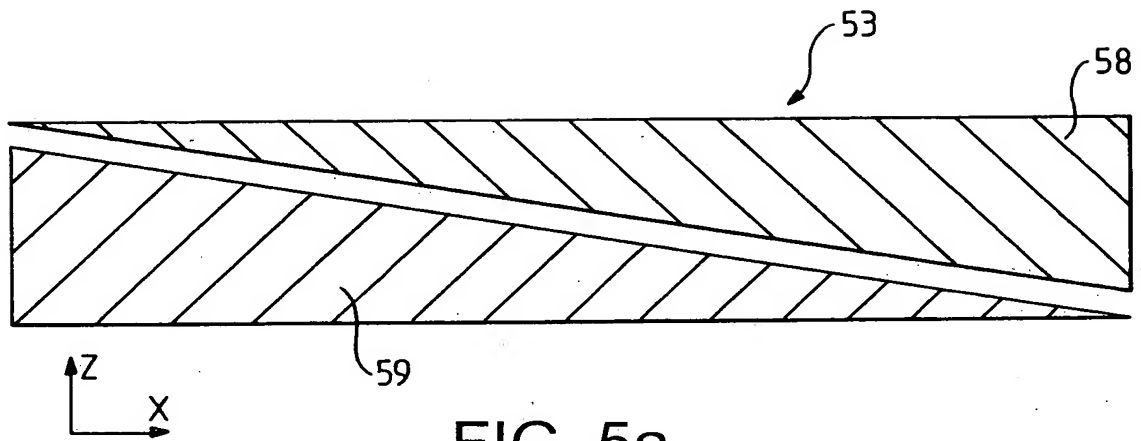


FIG. 5a

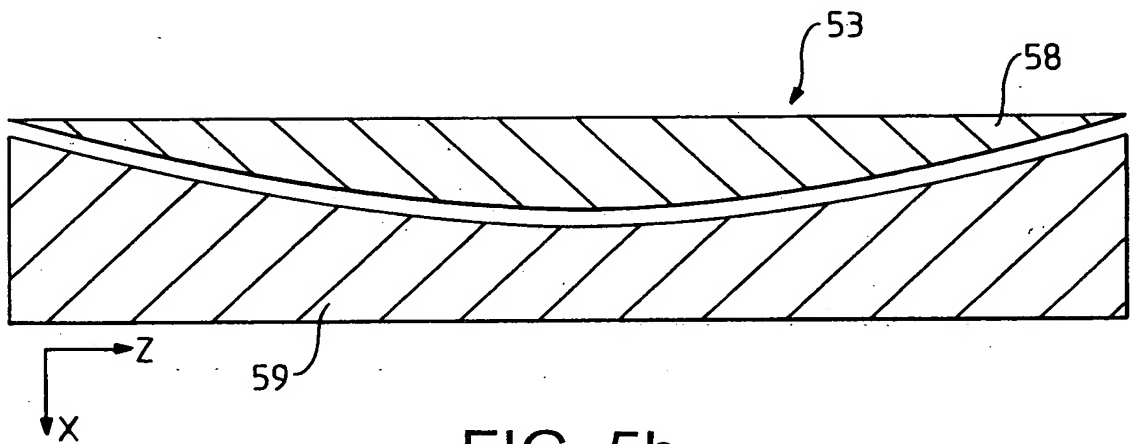


FIG. 5b

Partitioning of Rod Electrodes to Allow For x Field gradient

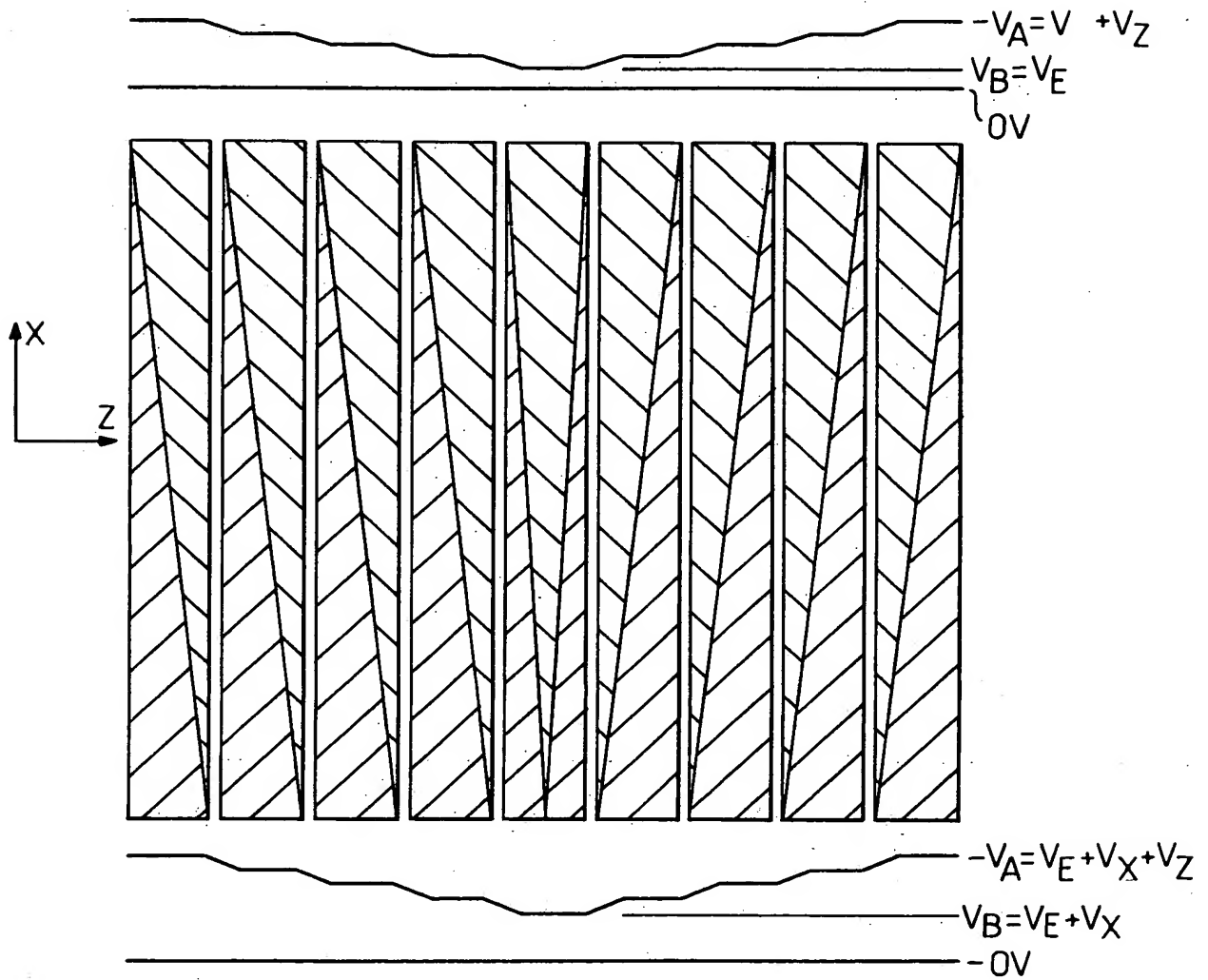


FIG. 6a

Ion Entrance and Exit From Planar Ion Guide

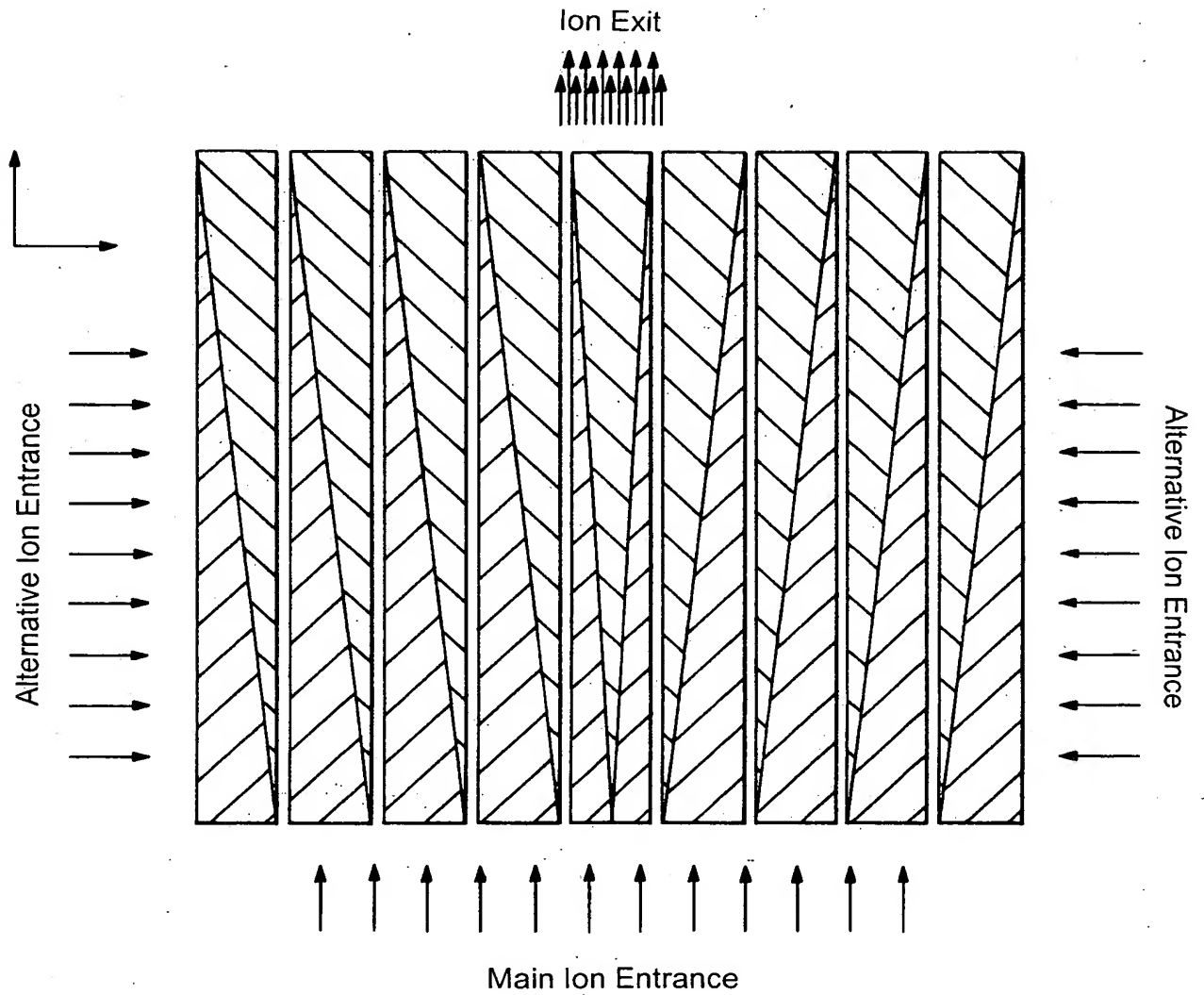


FIG. 6b

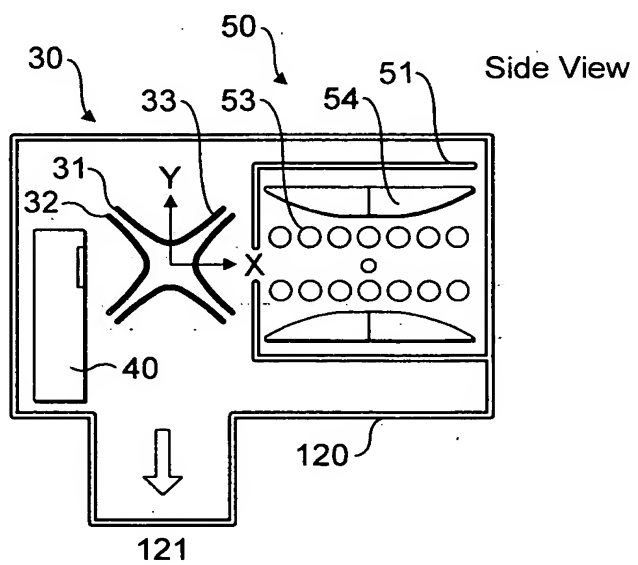
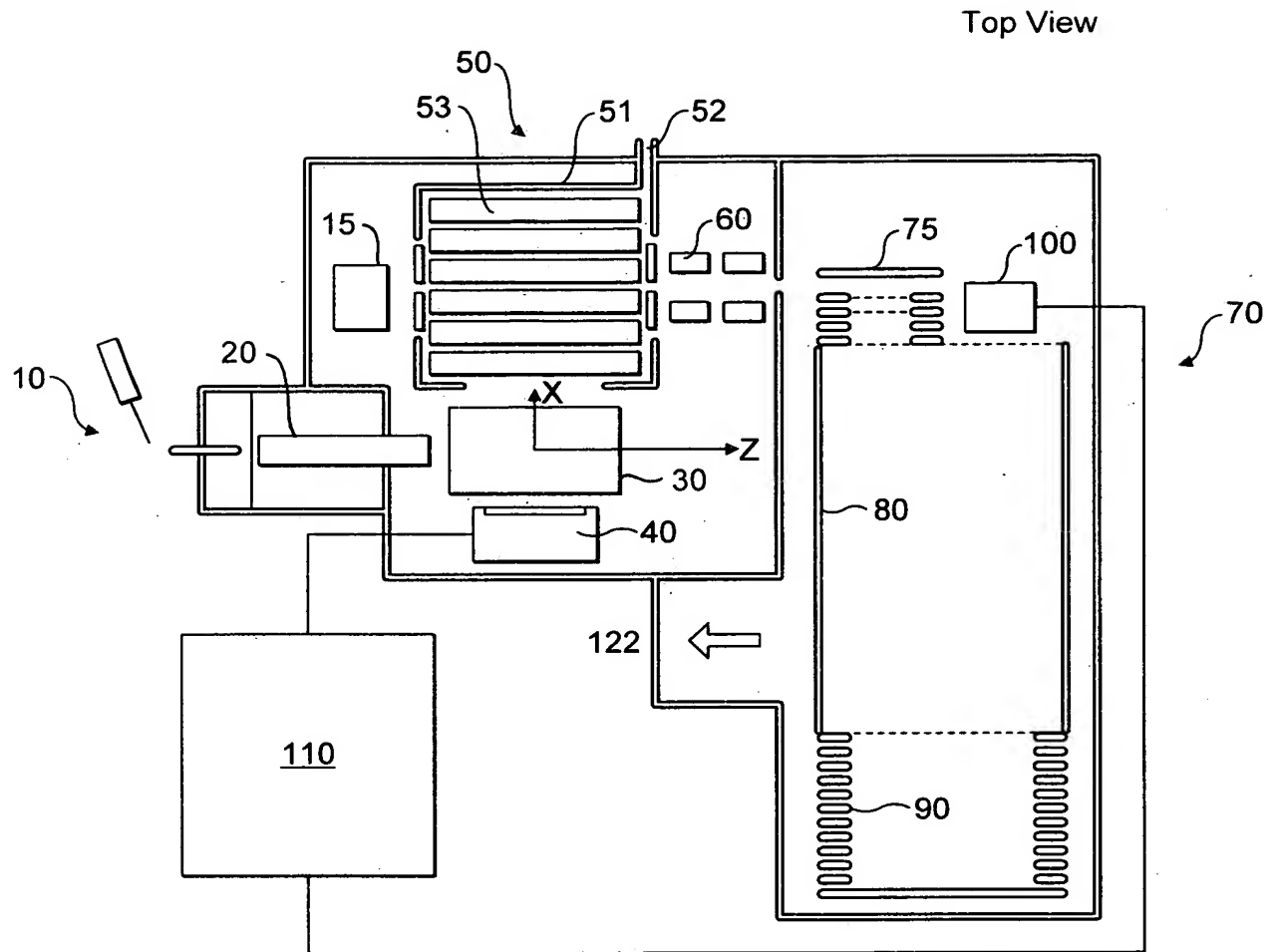


FIG. 7

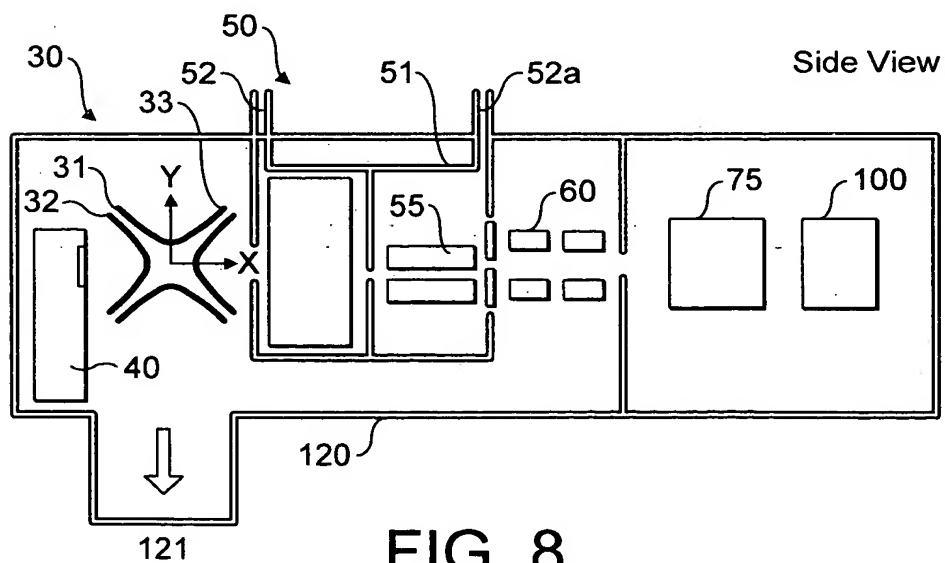
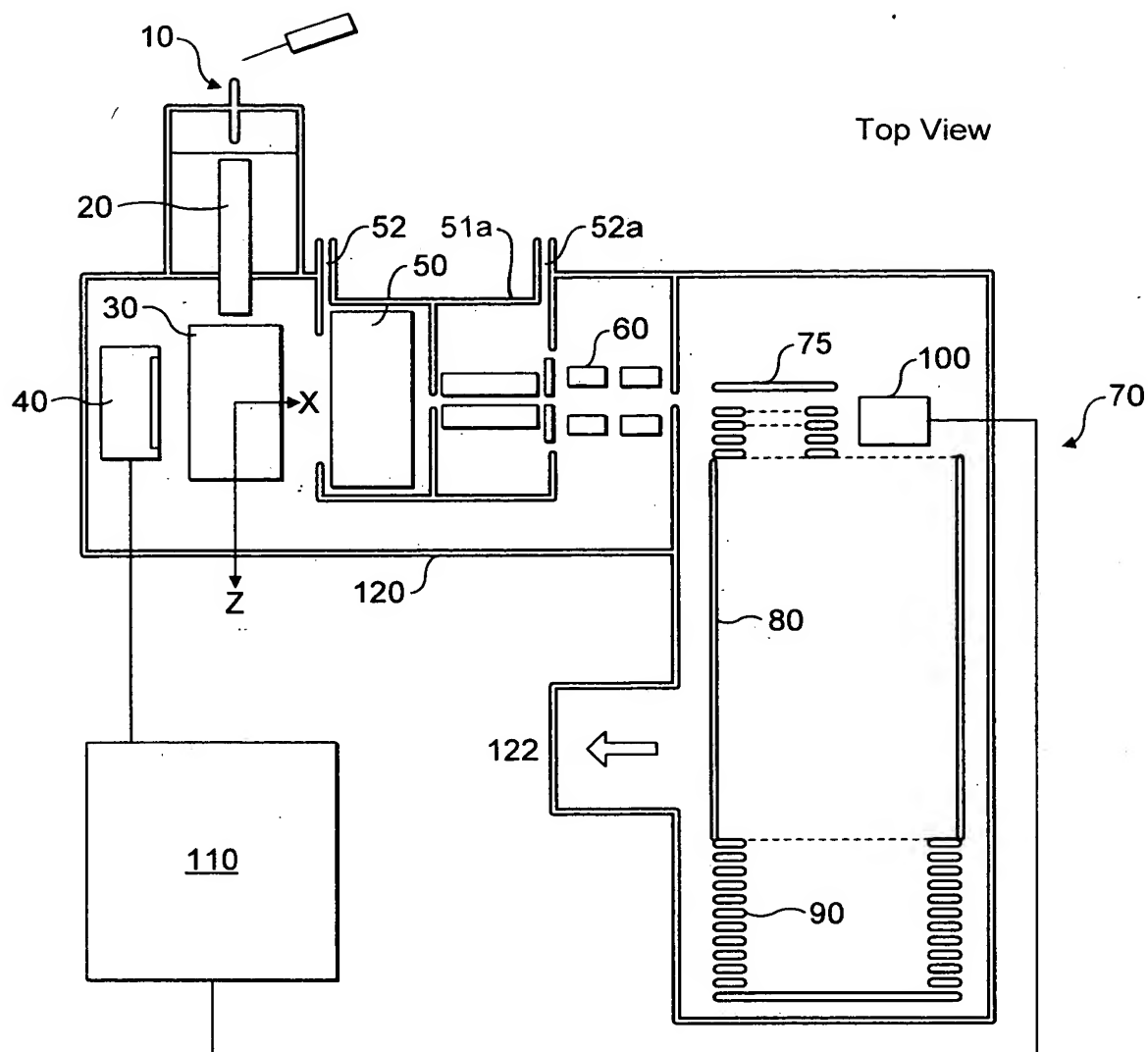


FIG. 8

Conventional Quadrupole / Ion Trap
RF Generation / Control Circuitry

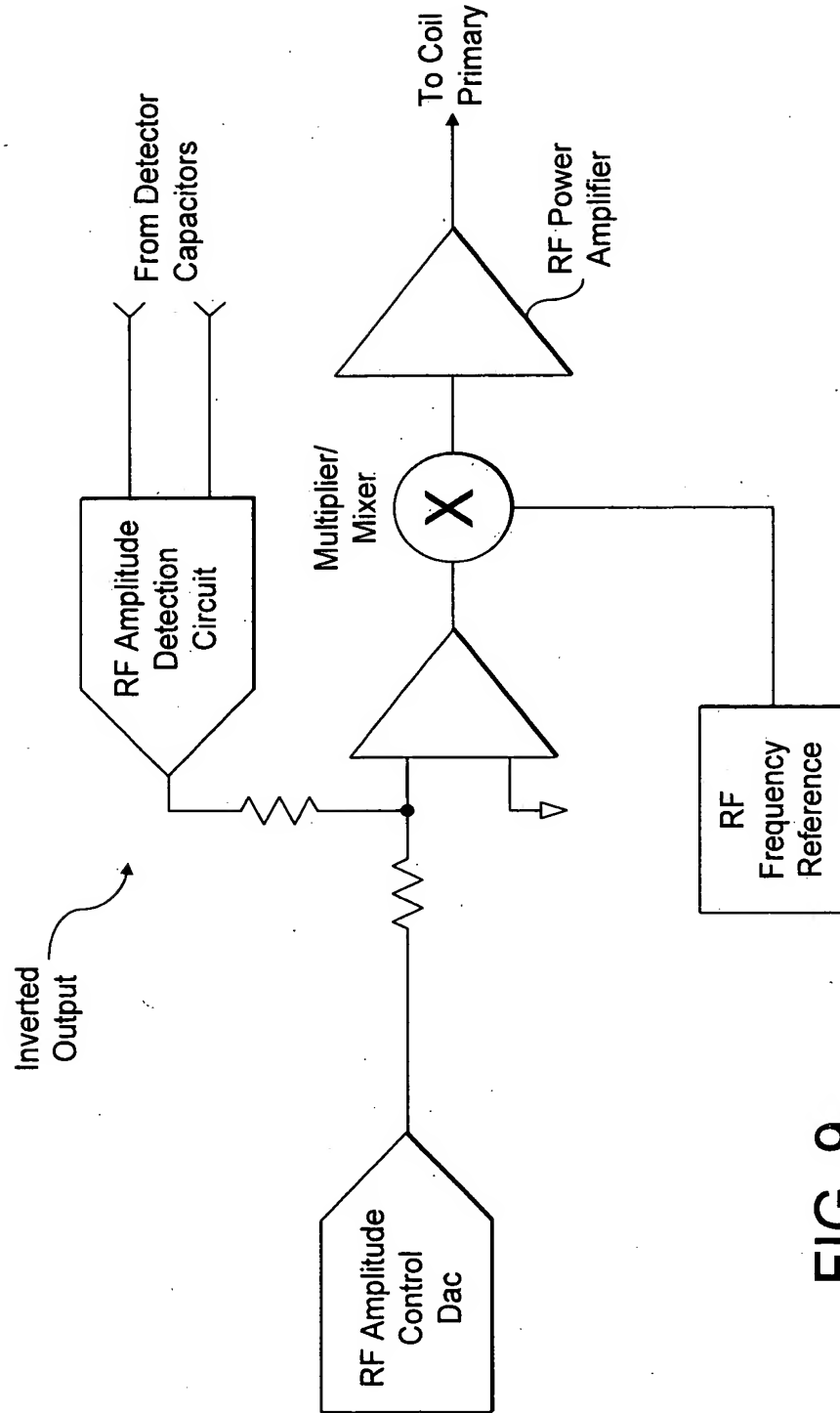


FIG. 9

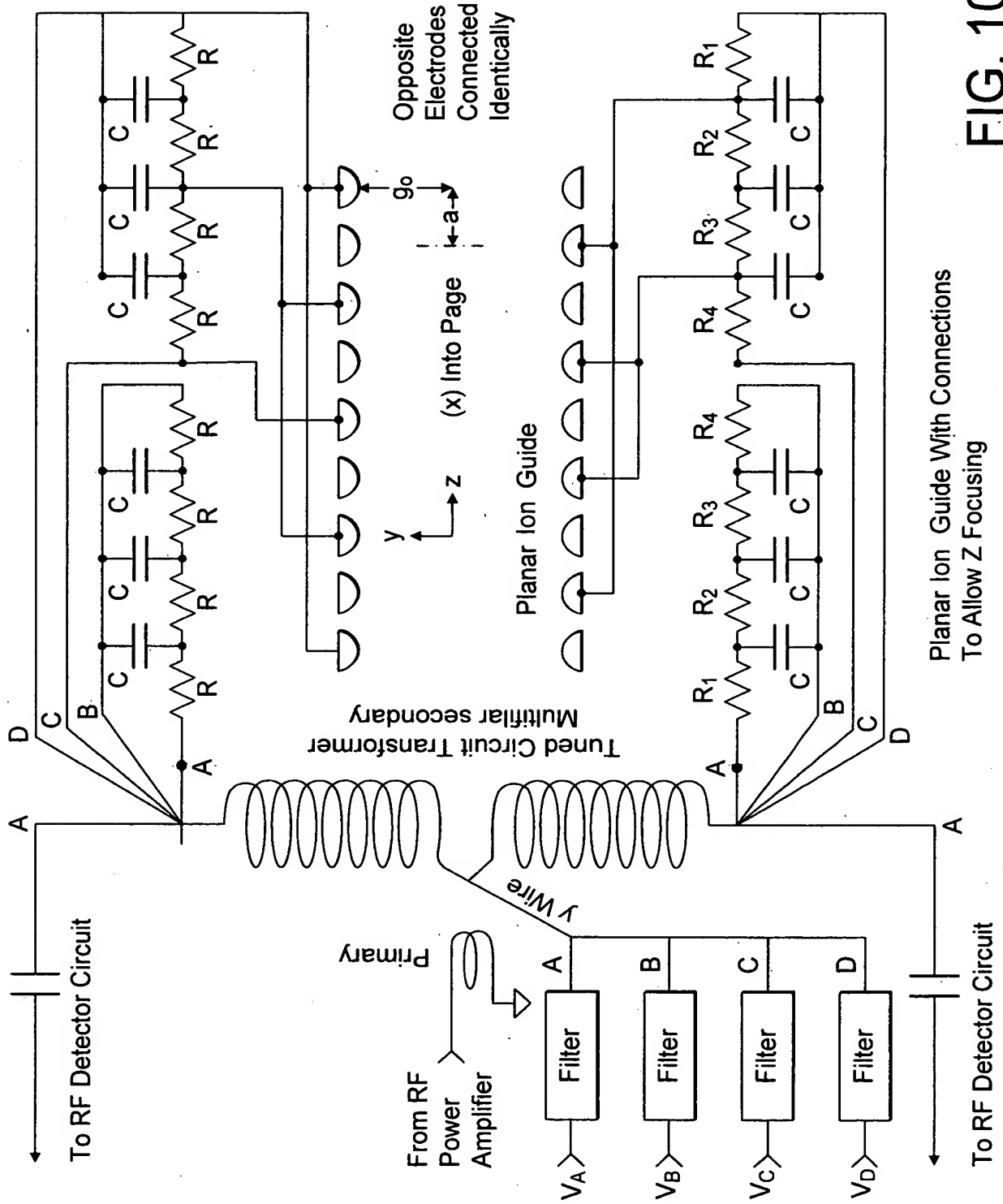
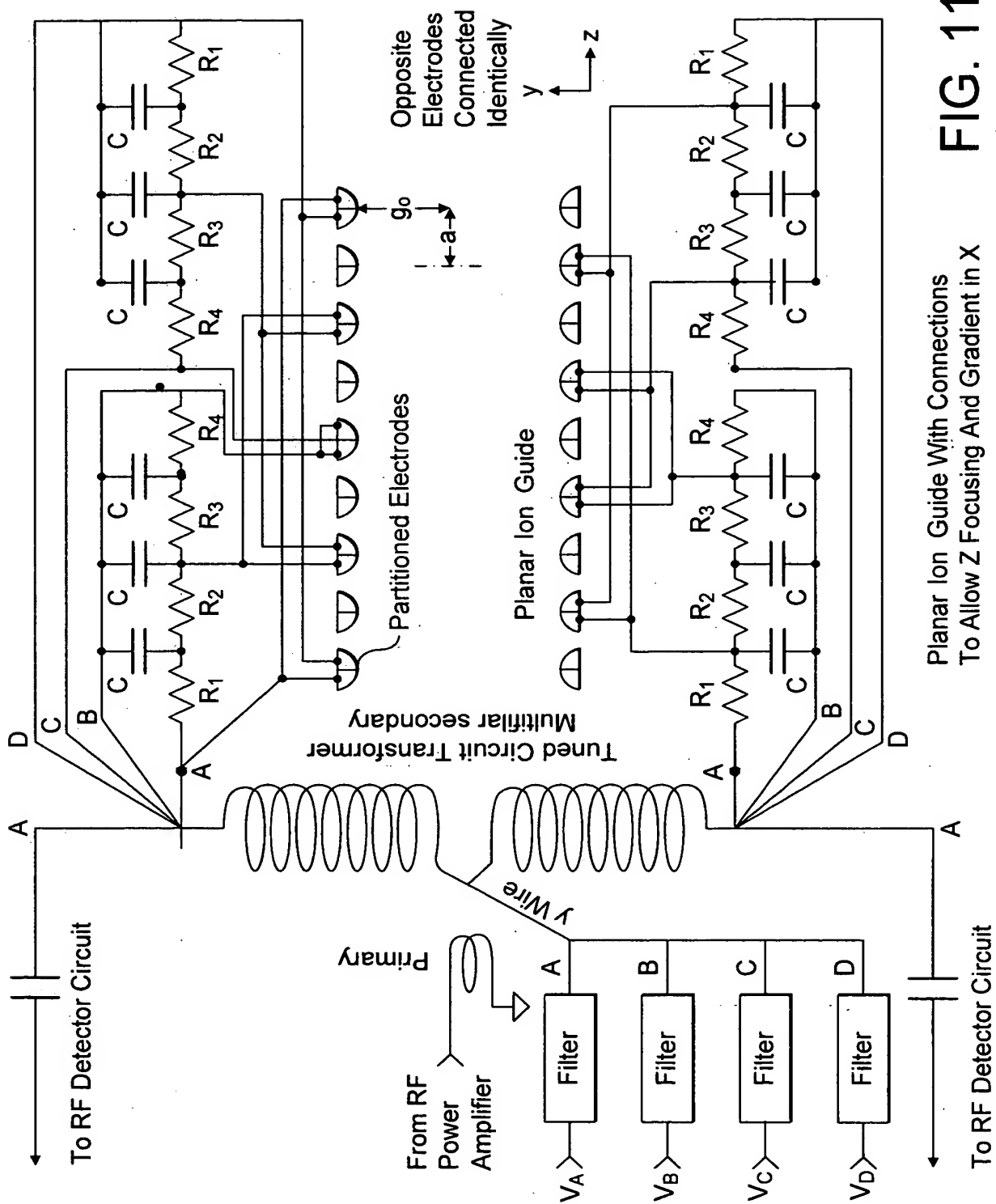


FIG. 10



Circuitry To Create Need DC Voltages For Planar Ion Guide

Estimated Voltages

$V_Z \approx 4$ Volts

$V_X \sim 0.5$ Volts or Less

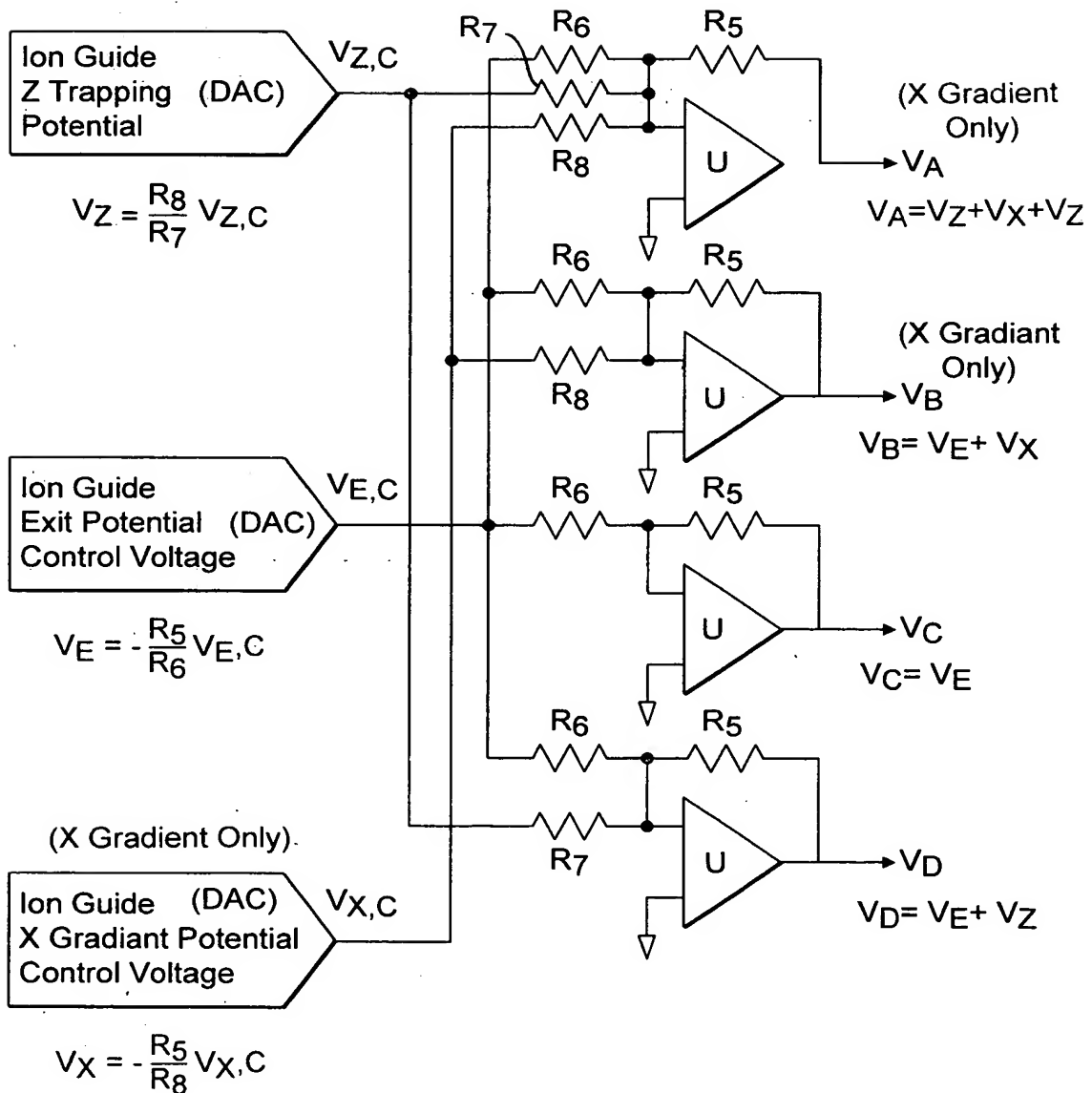


FIG. 12

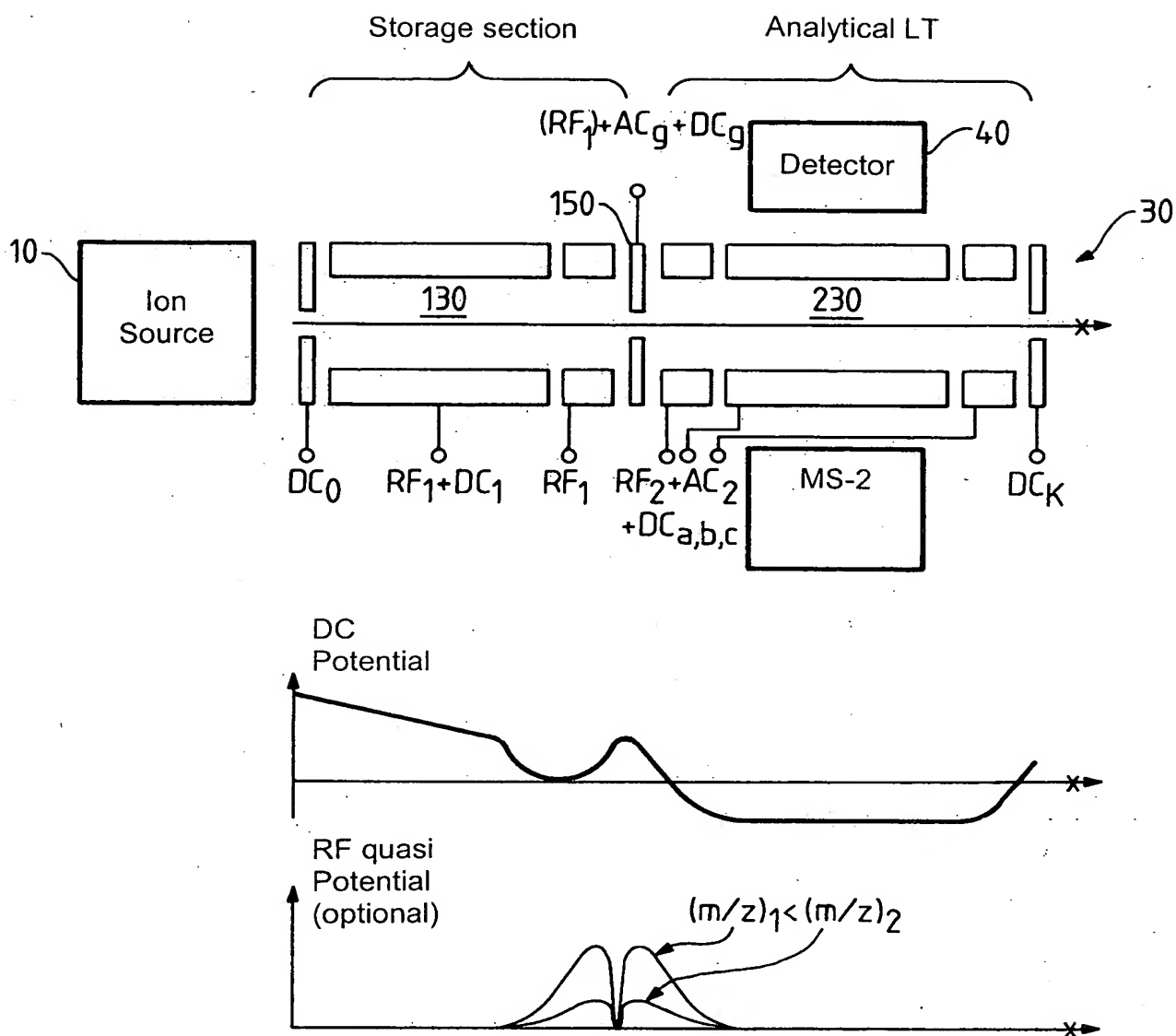


FIG. 13